

541685  
Rec'd PCT/PTO 07 JUL 2005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



10/541685



(43) International Publication Date  
29 July 2004 (29.07.2004)

PCT

(10) International Publication Number  
WO 2004/062367 A1

(51) International Patent Classification<sup>7</sup>:  
57/20, A61K 9/107

A01N 25/02,

(74) Agents: SMILER, Brian, L. et al.; Dinsmore & Shohl,  
LLP, One Dayton Center, Suite 500, One South Main  
Street, Dayton, OH 45402-2023 (US).

(21) International Application Number:

PCT/US2004/000554

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(22) International Filing Date: 10 January 2004 (10.01.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/439,256

10 January 2003 (10.01.2003) US

(71) Applicant (for all designated States except US): BAT-  
TELLE MEMORIAL INSTITUTE [US/US]; 505 King  
Avenue, Columbus, OH 43201-2693 (US).

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Euro-  
pean (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,  
GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,  
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,  
ML, MR, NE, SN, TD, TG).

(72) Inventors; and

(75) Inventors/Applicants (for US only):  
MOUCHARAFIEH, Nadin [US/US]; 531 Chabre  
Court, El Sobrante, CA 94803 (US). BAUER, Mark, R.  
[US/US]; 202 Griswold Street, Delaware, OH 43015  
(US). GRAHAM, Brian [ZA/ZA]; 7802 Tullymore  
Drive, Dublin, OH 43016 (US). FINNEY, John, R.  
[GB/GB]; 4401 Wyandotte Woods Boulevard, Dublin,  
OH 43016 (GB). CAFMEYER, Jeffrey [US/US]; 492  
Waring Way, Columbus, OH 43213 (US). FELLOWS,  
Robert, J. [US/US]; 1584 Cimarron Avenue, Richland,  
WA 99352 (US).

Published:

- with international search report
- before the expiration of the time limit for amending the  
claims and to be republished in the event of receipt of  
amendments

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: SPRAYABLE NON-AQUEOUS, OIL-CONTINUOUS MICROEMULSIONS AND METHODS OF MAKING SAME

(57) Abstract: Non-aqueous, oil-continuous microemulsions and methods of making such microemulsions are provided. The non-  
aqueous, oil-continuous microemulsions comprise at least one oil component, at least one non-aqueous polar solvent component,  
at least one amphiphilic material component, and at least one solubilized polar compound component. The solubilized polar com-  
pound can be a polar-acidic agrochemical complex such as glyphosate. The microemulsions can be applied by either conventional  
mechanical, non-electrostatic or by electrostatic LV or ULV techniques, such as, for example, electrohydrodynamic spraying, and  
exhibit enhanced pesticidal activity.

WO 2004/062367 A1